Practitioner's Docket No. MPI97-057P1RCP1CN1M

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Vincent Chau

Application No.:

Group No.:

N/A

Filed:

Herewith

Examiner:

N/A

For:

HUMAN PROTEINS RESPONSIBLE FOR NEDDS ACTIVATION AND

CONJUGATION

Mail Stop Patent Application **Commissioner for Patents** P.O. Box 1450 Alexandria, VA 22313-1450

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List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this Information Disclosure Statement:

- **Preliminary Statements** 1. [X]
- Forms PTO/SB/08A and 08B (substitute for Form PTO-1449) (5 pages) 2. (X)
- Identification of Prior Application in Which Listed Information Was Already Cited and for (x)3.. Which No Copies Are Submitted or Need Be Submitted

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Sean Hunziker (type or print name of person certifying)

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Preliminary Statements

Applicants submit herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. section 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted

This application relies, under 35 U.S.C. section 120, on the earlier filing date of prior application Serial No.: 09/216,430, filed on <u>December 18, 1998</u>.

The following references were submitted to, and/or cited by, the Office in the prior application(s) and, therefore, are not required to be provided in this application. However, in the event additional copies are necessary, the undersigned will submit such copies upon request.

October 8, 2003

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75 Sidney Street

Cambridge, MA 02139

Telephone – (617) 551-3676 Facsimile – (617) 551-8820

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			U.S. PATENT DOCUME	NTS	
Cite No.1			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document (MM-DD-YYYY)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A1	5,932,442		Lal, et al.		
A2	6,015,702		Lal, et al.	1/18/00	
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	No. ¹	Cite No. ¹ Number A1 5,932,442	Cite Kind Code² No.¹ Number (if known) A1 5,932,442	Cite No.1 Number (if known) Number (if known) Number Lal, et al.	Cite No.1 Kind Code2 Name of Patentee or Applicant of Cited Document (MM-DD-YYYY) A1 5,932,442 Lal, et al. 8/3/99

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milais	C1	Adams, M.D., et al.: Homo Sapiens cDNA Clone Similar to Ubiquitin-Activating Enzyme; (1997); EMEST Database Entry HSZZ89371, Accession Number AA384235, XP-002103411, See Sequence	
	C2	Altschul et al., Nucleic Acids Research 25(17):3389-3402 (1997)	
	C3	Attwood, et al., Comput. Chem 25(4):329-339 (2001)	
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	C5	Clackson, T. P., Genetially Entineered Monocloncal Antibodies 30(S2):36-39 (1991)	
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	C7	Hershko, et al., Annu. Rev. Ciochem. 61:7610807 (1992)	
	C8	Hillier et al.: Homo Sapiens cDNA Clone Similar to Ubiquitin-Activating Enzyme; (1997); EMEST Database Entry HS1201636, Accession Number AA401865, XP-002103407, See Sequence	
	C9	Hillier et al.: Homo Sapiens cDNA Clone Similar to Ubiquitin-Activating Enzyme; (1997); EMEST Database Entry HS1201722, Accession Number AA401968, XP-002103408, See Sequence	
	C10	Horwell D.C., Bioorganic & Med. Chem. 4(10):1573-1576 (1996)	-

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	C11	Hopkin K., The Journal of NIH Research 9:36-42 (1997)	
	C12	Jentsch, S., Annu. Rev. Genet. 26 :179-207 (1992)	
	C13	Jones et al., Nature 321 :522-525 (1986)	
	C13	Kamitani, T. et al., J. Bio. Chem. 272(22) :14001-14004 (1997)	
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	C15	Loeb et al., The Journal of biological Chemistry 267(11):7806-7813 (1992)	
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	C18	Leyser, et al., Arabidopsis Auxin-Resistance Gene AXR1 Encodes a Protein Related to Ubiquitin-Activatin enzyme E1 364:161-164 (1993)	

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	C19	Liskamp, R.M.J., Recl. Trav. Chim. Pays-Bas 113:1-19 (1994)	
	C20	Marra, M., et al.: Mus Musculus cDNA Clone Similar to Ubiquitin-Conjugating Enzyme E2; (1977); EMEST Database Entry AA671071, Accession Number AA671071, XP-002103412, See Sequence	
	C21	Marx, J. L., Science 229:455-456 (1985)	-
	C22	Murray A., Cell 81:149-152 (1995)	
	C23	National Cancer Institute, Cancer Genome Anatomy Project (CGAP): Homo Sapiens cDNA Clone Similar to Ubiquitin-Conjugating Enzyme E2; (1997); EMEST Database Entry HSAA61836, Accession Number AA261836, XP-002103409, See Sequence	
	C24	National Cancer Institute, Cancer Genome Anatomy Project (CGAP): Homo Sapiens cDNA Clone Similar to Ubiquitin-Conjugating Enzyme E2; (1997); EMEST Database Entry HSAA577116, Accession Number AA577116, XP-002103410, See Sequence	
	C25	Osaka et al., Genes & Development 12:2263-2268 (1998)	
	C26	Okura et al., Jrnl. Of Immunology:4277-4281 (1996)	
	C27	Ponting, C. P., Brief. Bioinform. 2(1):19-29 (2001)	

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Sheet	4	of	4	Attorney Docket Number	MPI97-057P1RCP1CN1M	

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	C28	Riechmann et al., Nature 332:323-327 (1988)	
	C29	Rock et al., Cell 78:761-771 (1994)	
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<u></u>	C32	Seebach et al., Helvetica Chimica Acta 75 :913-934 (1992)	
	C33	Thompson et al., CLUSTAL W: Improving the Sensitivity of Progressive Multiple Sequence Alignment Through Sequence Weighting, Position-Specific Gap22(22) :4673-4680 (1994)	
	C34	Townsley et al., Proc. Natl. Acad. Schi. 94 :2362-2367 (1997)	
	C35	Verhoeyen et al., Science 239 :1534-1536 (1988)	

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